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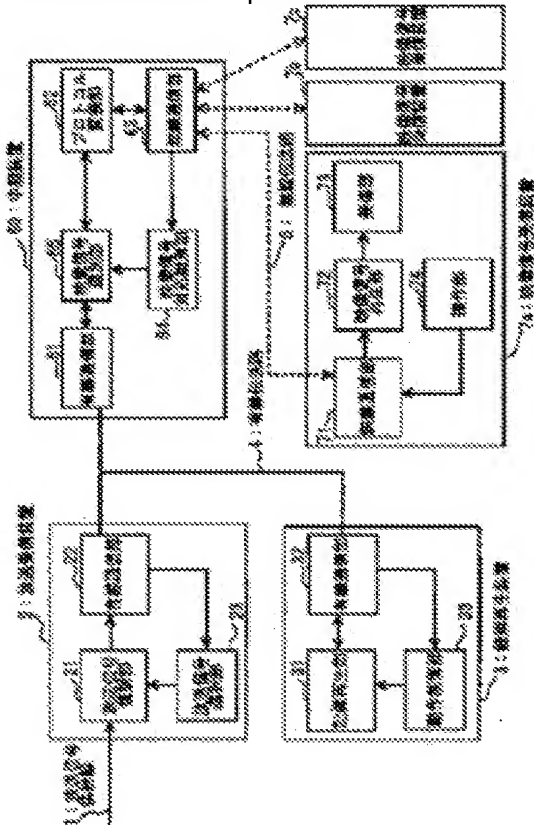
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**Abstract:**

**PROBLEM TO BE SOLVED:** To provide an image signal repeater and an image signal repeating system which transmit an image signal through a transmission path having a small transmission capacity without producing a transmission error. **SOLUTION:** An image signal repeater has a first communication part which has first information indicating contents of an image signal for inputting the image signal transmitted through a first transmission path; an image signal selection part which extracts the first information from the input image signal, and, when the same first information was extracted from a plurality of the image signals, selects only one image signal from among them and transmits it to a second communication part; and the second communication part for outputting the image signal transmitted from the image signal selection part through a second transmission path having a smaller transmission capacity than the first transmission path.



#### JPO Machine translation abstract:

##### (57) Abstract

**SUBJECT** The video-signal repeating installation and the video-signal relay system which send out a video signal through the transmission line where transmission capacity is small are provided without producing a transmission error.

**Means for Solution** The 1st communications department which inputs said video signal which video-signal repeating installation of this invention has the 1st information that shows the contents of the video signal, and was transmitted through the 1st transmission line, When said 1st information is extracted from said inputted video signal and said 1st same information is extracted from said two or more video signals, It has a video-signal separation part which chooses only said one video signal of them, and is transmitted to the 2nd communications department, and said 2nd communications department which outputs said video signal transmitted from said video-signal separation part through the 2nd transmission line where transmission capacity is smaller than said 1st transmission line.

#### Claim(s)

**Claim 1** Video-signal repeating installation comprising:

The 1st communications department which inputs said video signal which has the 1st information that shows the contents of the video signal, and was transmitted through the 1st transmission line.

When said 1st information is extracted from said inputted video signal and said 1st same information is extracted from said two or more video signals, A video-signal separation part which chooses only said one video signal of them, and is transmitted to the 2nd communications department, and said 2nd communications department which outputs said video signal transmitted from said video-signal separation part through the 2nd transmission line where transmission capacity is smaller than said 1st transmission line.

**Claim 2** Said video-signal separation part extracts further the 2nd information that shows the destination of said video signal to said inputted video signal, When said video-signal separation part extracts said 1st same information from said two or more video signals, The video-signal repeating installation according to claim 1 characterized by what said 2nd information extracted from said those video signals is added to said one video signal of them, and only said the one video signal is sent out for to said 2nd transmission line from said 2nd communications department.

**Claim 3** Video-signal repeating installation comprising:

The 1st communications department which inputs a video signal transmitted through the 1st transmission line.

A transmission quantity comparing element which measures the total transmission quantity per unit time of said video signal inputted from said 1st transmission line, and transmission capacity of the 2nd transmission line.

A compression zone which compresses and outputs the amount of information of said video signal according to a comparison result of said transmission quantity comparing element.

The 2nd communications department which outputs said video signal which had the amount of information compressed through said 2nd transmission line where transmission capacity is smaller than said 1st transmission line.

**Claim 4** Video-signal repeating installation comprising:

The 1st communications department which inputs a video signal transmitted through the 1st transmission line.

It is a generation \*\*\*\*\* performance information comparing element about a control signal compare with processing performance information on a receiving set the total transmission quantity per unit time of said video signal inputted from said 1st transmission line, and corresponding to a comparison result.

A compression zone which compresses and outputs the amount of information of said video signal according to said control signal.

The 2nd communications department which transmits said video signal which had the amount of information compressed to said receiving set through said 2nd transmission line where transmission capacity is smaller than said 1st transmission line, and receives processing performance information on said receiving set to said receiving set through said 2nd transmission line.

**Claim 5** Video-signal repeating installation comprising:

The 1st communications department which inputs a video signal transmitted through the 1st transmission line.

A compression zone which compresses and outputs the amount of information of said video signal according to compression ratio control information transmitted from a receiving set, The 2nd communications department which transmits said video signal which had the amount of information compressed to said receiving set through said 2nd transmission line where transmission capacity is smaller than said 1st transmission line, and receives said compression ratio control information from said receiving set through said 2nd transmission line.

**Claim 6** Video-signal repeating installation comprising:

The 1st communications department which inputs a video signal transmitted through the 1st transmission line.

A video-signal information identification part which inputs video-signal information showing resolution and a frame period of said video signal, and generates a control signal based on said video-signal information.

A compression zone which compresses and outputs the amount of information of said video signal according to said control signal.

The 2nd communications department which outputs said video signal which had the amount of

information compressed through the 2nd transmission line where transmission capacity is smaller than said 1st transmission line.

**Claim 7** Video-signal repeating installation given in one claim of claim 1 to claims 6, wherein said 1st transmission line is a cable-transmission way and said 2nd transmission line is a radio transmission line.

**Claim 8** A video-signal relay system comprising:

The 1st transmission line.

Video-signal repeating installation given in either claim of claim 1 to the 2nd transmission line and claim 7.